IN THE CLAIMS

1. (Previously Amended) A coating composition for applying to substrates subject to incursion of moisture to resist moisture penetration into the substrate coated with the coating, the coating composition prepared by a process comprising:

heating and blending together a mixture comprising waxes and paraffins and dispersing powdered metal, metal oxide, or metal carbide throughout the mixture; and cooling the mixture to form a waxy solid with powdered metal, metal oxide or metal carbide dispersed therein.

wherein the waxy solid is substantially free of entrained gasses; wherein heating need not be applied to render a coating of the composition homogeneous when applied to a substrate; and wherein moisture incursion into the coated substrate is reduced by at least about 50% as compared to an uncoated substrate under the same temperature and moisture conditions.

- 2. (Original) The coating composition of claim 1, wherein the mixture comprises a mixture of beeswax and paraffins.
- 3. (Original) The coating composition of claim 2, wherein the paraffins comprise primarily aliphatic hydrocarbons having chain lengths in the range from about 18 to about 36 carbon atoms.
- 4. (Original) The coating composition of claim 1, wherein the metal comprises aluminum.
- 5. (Original) The coating composition of claim 1, wherein the metal oxide comprises titanium oxide or aluminum oxide.
- 6. (Original) The coating composition of claim 2, wherein the metal comprises aluminum.
- 7. (Original) The coating composition of claim 2, wherein the metal oxide comprises titanium oxide or aluminum oxide.

- 8. (Original) The coating composition of claim 1, wherein the mixture, before addition of powdered metal or metal oxide, has a melting point in the range of about 120 to 200°F.
- 9. (Original) The coating composition of claim 1, wherein, the composition cools to ambient temperature substantially free of occlusion of gas bubbles.
- 10. (Original) The coating composition of claim 1, wherein the composition is a solid at temperatures in the range below about 140°F, and liquefies upon heating to a temperature in the range from about 170 to about 190°F.
- 11. (Original) The coating composition of claim 10, wherein physical properties of the liquefied composition enable application of the composition to a surface by spraying, painting with a brush or roller.
- 12. (Original) The coating composition of claim 1, wherein the powdered metal or metal oxide or metal carbide comprises a sufficient amount to permit uniform heating of a mass of the composition, and to provide such internal compression of a mass of the composition upon cooling as to substantially exclude occluded gasses from a cooled mass.
- 13. (Previously Amended) The coating composition of claim 1, wherein the amount of powdered metal or metal oxide comprises from about 5 to about 15 wt. %, based on the weight of the mixture.
- 14. (Original) The coating composition of claim 1, wherein when coated onto a composite material subject to moisture absorption under hot and wet ambient conditions, the composition reduces moisture absorption by from about 60 to about 100% as compared to an uncoated composite.

- 15. (Previously Amended) A coating composition resistant to penetration by moisture, the composition substantially preventing moisture absorption into a composite otherwise subject to moisture absorption under hot and wet ambient conditions, the composition comprising:
 - a) a mixture of esters of fatty acids and aliphatic hydrocarbons having a melting point in the range from about 170 to about 190°F; and
 - b) a powdered additive in sufficient amount to permit uniform heating of a mass of the composition and to provide compression of a mass of the composition upon cooling sufficient to substantially exclude occluded gasses from a cooled mass

wherein the composition comprises a waxy solid at room temperature; and wherein when the molten composition is applied to a substrate to form a coating, the coating does not require heating to render the coating homogeneous.

- 16. (Original) The coating composition of claim 14, wherein the mixture comprises paraffins and waxes, the paraffins primarily having a chain length of from about 18 to about 36 carbon atoms.
- 17. (Original) The coating composition of claim 15, wherein the powdered additive is selected from the group consisting of powdered metals, metal carbides and metal oxides.
- 18. (Original) The coating composition of claim 16, wherein the powdered additive comprises powdered aluminum comprising particulates in the range from about 25 to about 60 microns.
- 19. (Original) The coating composition of claim 17, wherein the powdered additive is selected from aluminum and titanium oxide.
- 20. (Original) The coating composition of claim 14, the composition comprising a solid at ambient temperatures in the range below about 140°F.

21. (Original) The coating composition of claim 14, wherein when coated onto a composite material subject to moisture absorption under ambient conditions of temperature and humidity, the composition reduces moisture absorption by from about 60 to about 100%.